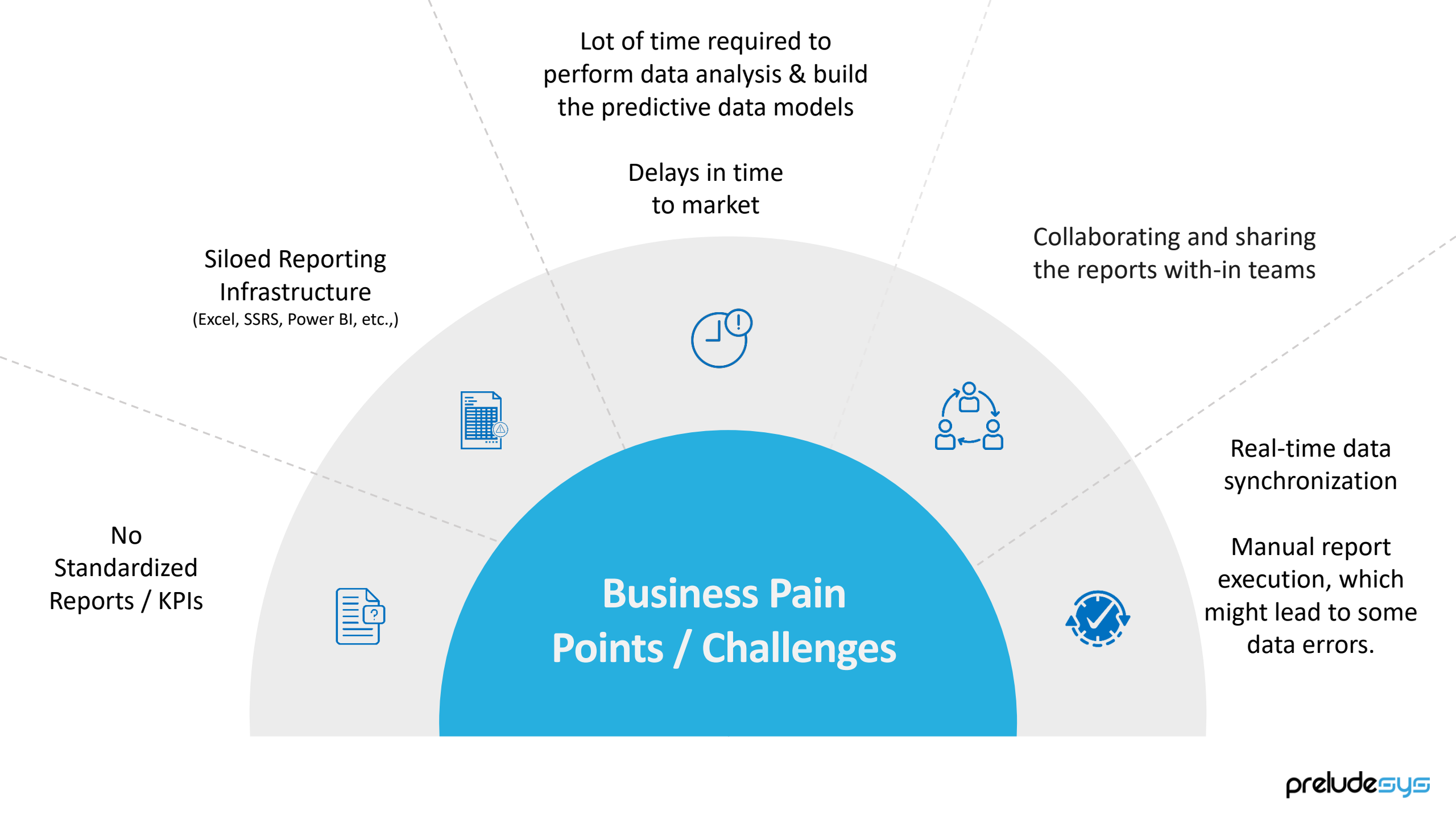
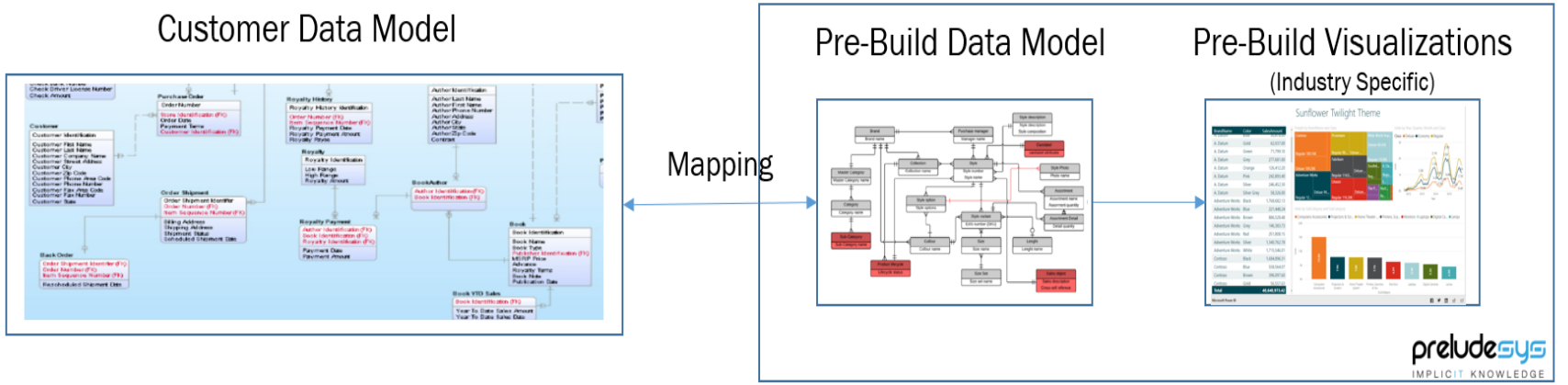
preludesys

Power BI Insurance Dashboard Accelerator

Microsoft Gold Partner


Lot of time required to perform data analysis & build the predictive data models
Delays in time to market
Collaborating and sharing the reports with-in teams
Siloed Reporting Infrastructure
(Excel, SSRS, Power BI, etc.,)
Real-time data synchronization
Manual report execution, which might lead to some data errors.
No Standardized Reports / KPIs
Business Pain Points / Challenges

Industrial Insights Accelerator



Highlights:

- ✓ Pre-Build Data Model & Visualizations were developed in reference to extensive research and analysis through retail experts.
- ✓ Quick to plug-in the Customer Data Model with Pre-Build Data Model through mapping key dimensions and measures (metrics) using Power BI Dataflows.
- ✓ Equipped to enhance data model to address customer specific reporting demands.
- ✓ Inbuilt accurate Claim Fraudulence detection analytics using 8 proven data science algorithms like Gradient Boost, Random Forest and inbuilt sampling techniques.
- ✓ Easy to configure Report themes.

preludesys

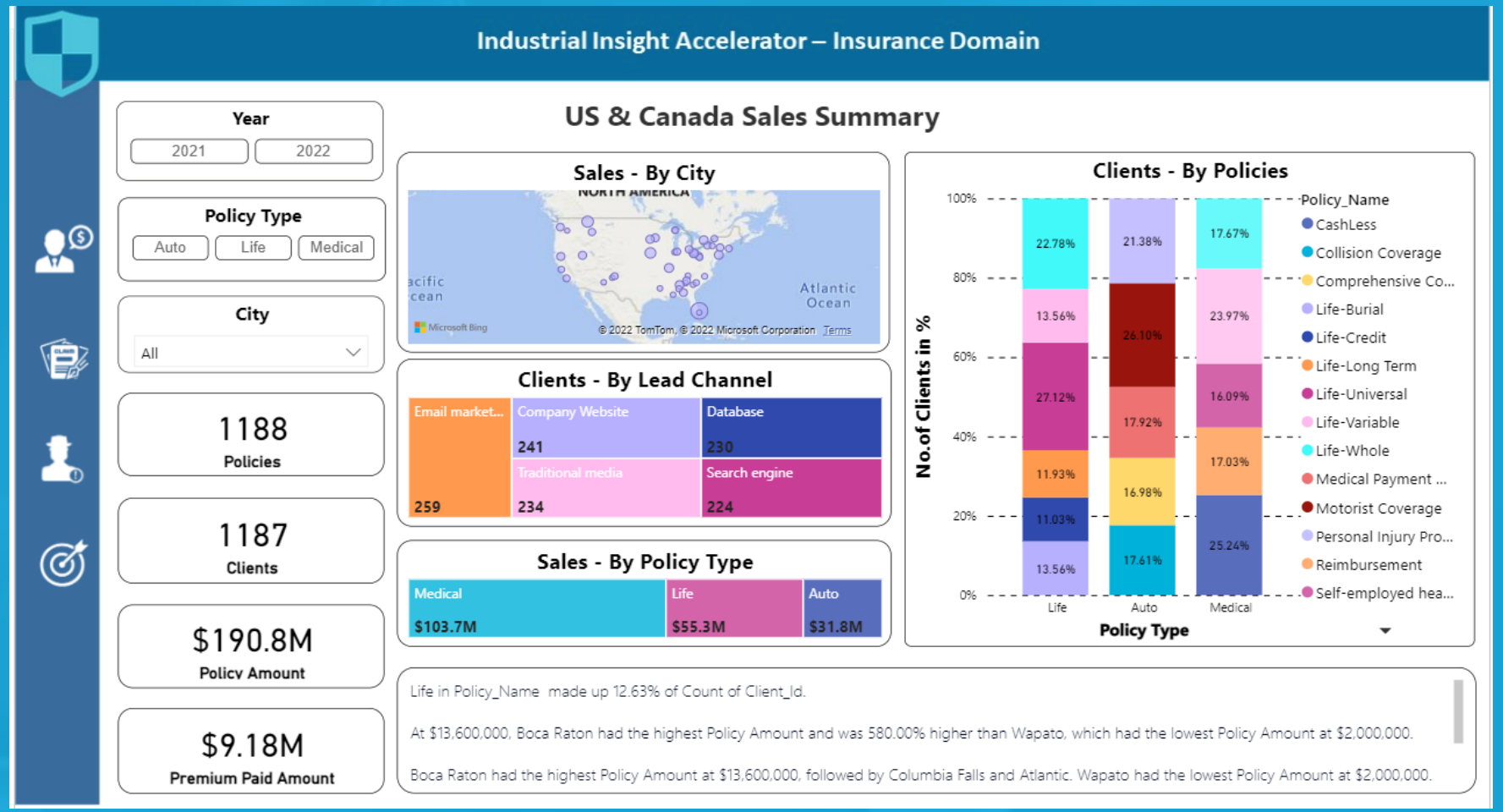
Quick Wins - Industrial Insights Accelerator (IIA)

- ✓ Centralized with standard reporting structure for all the insurance functions with a functional coverage of **45-60%***
- ✓ Quick to switch from Excel usage to Power BI
- ✓ Swift approach to go-to-market, for new Power BI Users
- ✓ Extensive Collaborating and sharing features of Power BI
- ✓ Highly improved performance (in comparison with Excel & SSRS)
- ✓ Predictive visualizations with python based proven analytical data model
- ✓ Near Real-time data synchronization

* Functional coverage range varies based on the specific domain

preludesys

Insurance Sales Summary



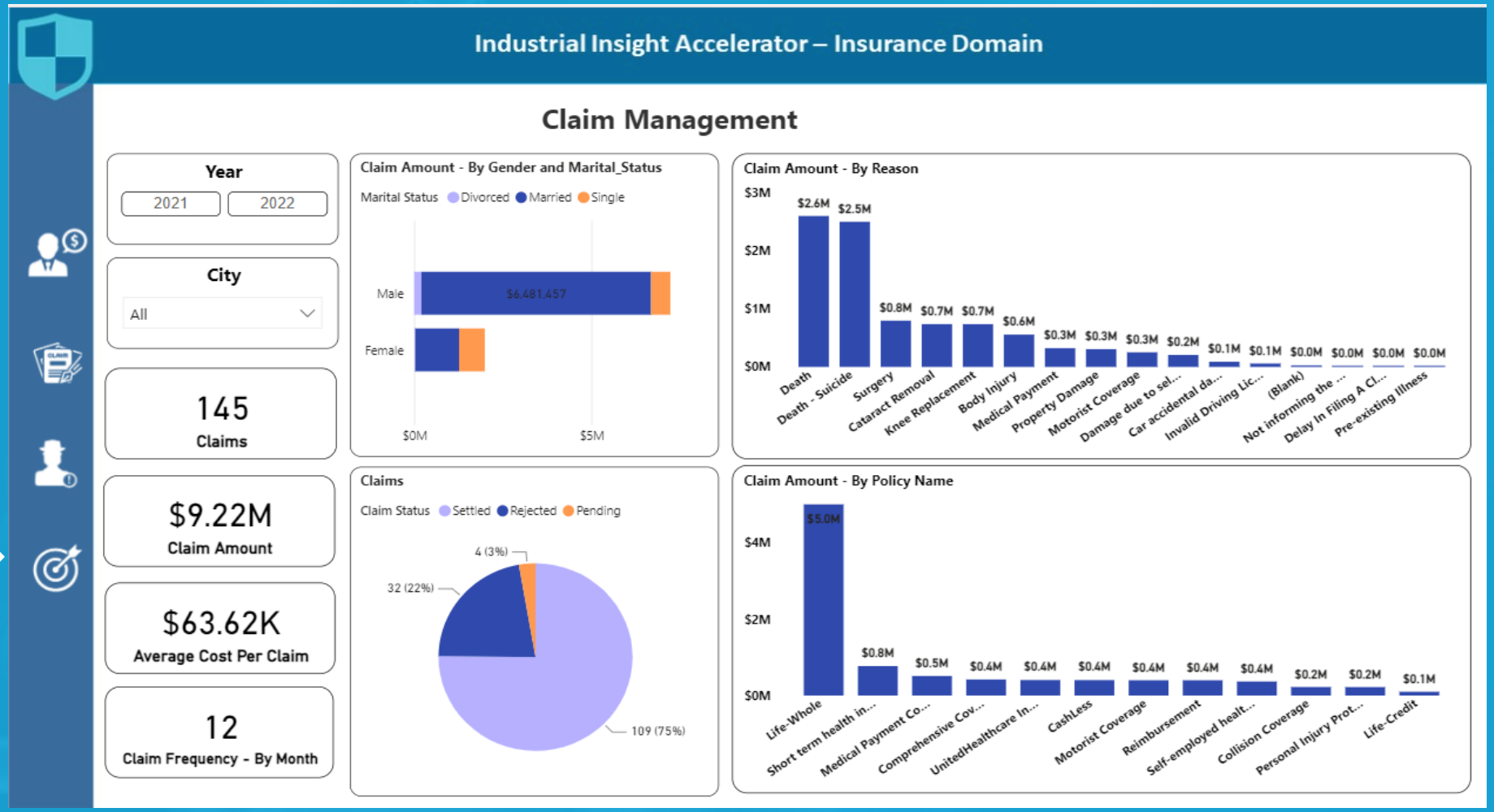
Key Insights:

- ✓ Insurance KPIs like Total Policies, Total Clients who have purchased policies, Total Policy Amount and the Premium Paid Amount
- ✓ Tree Map charts for # Clients by Lead Channels and Sales Amount by Policy type.
- ✓ Stacked Column Chart with # Clients by Policies and Policy Types.
- ✓ Map represents Sales overview of US and Canada.
- ✓ Interactive filter selection at period, policy type, region level.

* Data in reports is only for illustration purposes.

preludesys

Insurance Claim Management



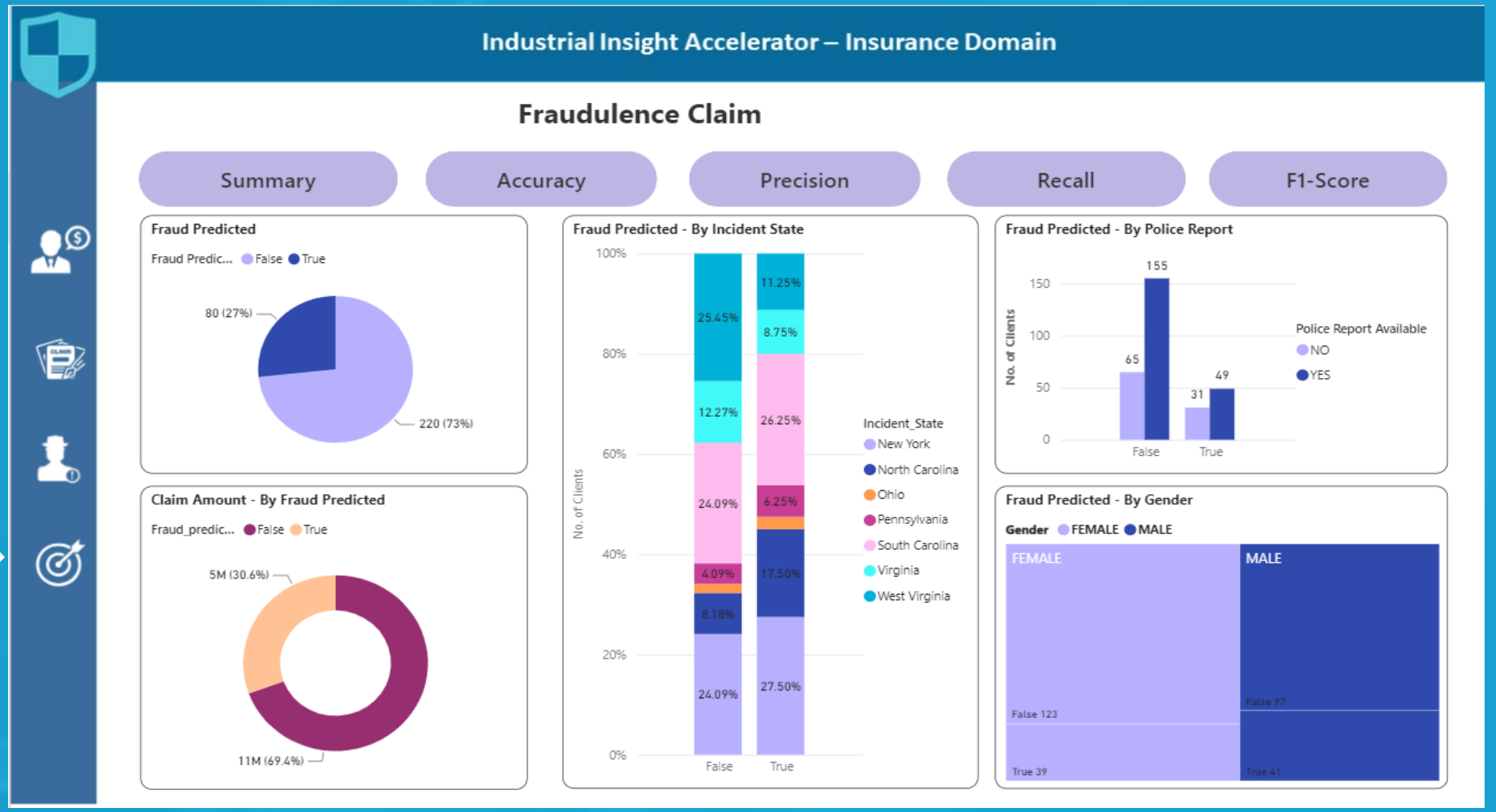
Key Insights:

- ✓ KPIs like Total Claims, Claim Amount. Insightful KPIs like Average Cost Per Claim and Clam Frequency by Month.
- ✓ Claim Amount by Gender and Marital Status, Reason and Policy Name shown in bar charts.
- ✓ Claims by Claim Status shown in Pie chart
- ✓ Interactive filter selection at period and region level.

* Data in reports is only for illustration purposes.

preludesys

Insurance Fraudulence Claim - Summary



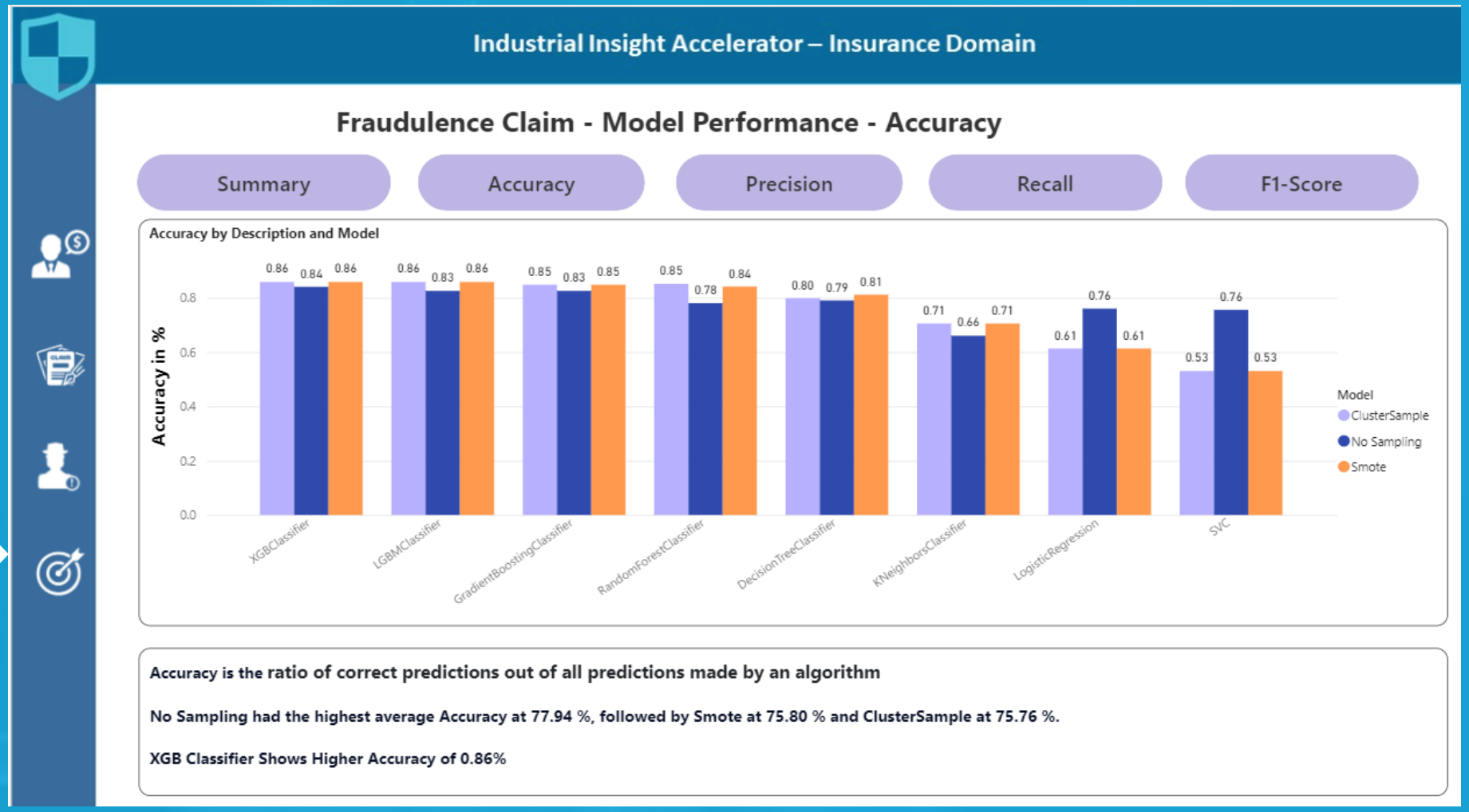
Key Insights:

- ✓ Ratio of Fraudulence predicted to occur(True) Vs predicted may not occur (False) is visualized in this report.
- ✓ Fraud predicted numbers and predicted by Claim Amount shown in Pie chart and Donut chart respectively.
- ✓ Fraud predicted by Incident State and Police report shown in Column charts. Tree Map shows the Fraud predicted by Gender.

* Data in reports is only for illustration purposes.

preludesys

Insurance Fraudulence Claim - Accuracy



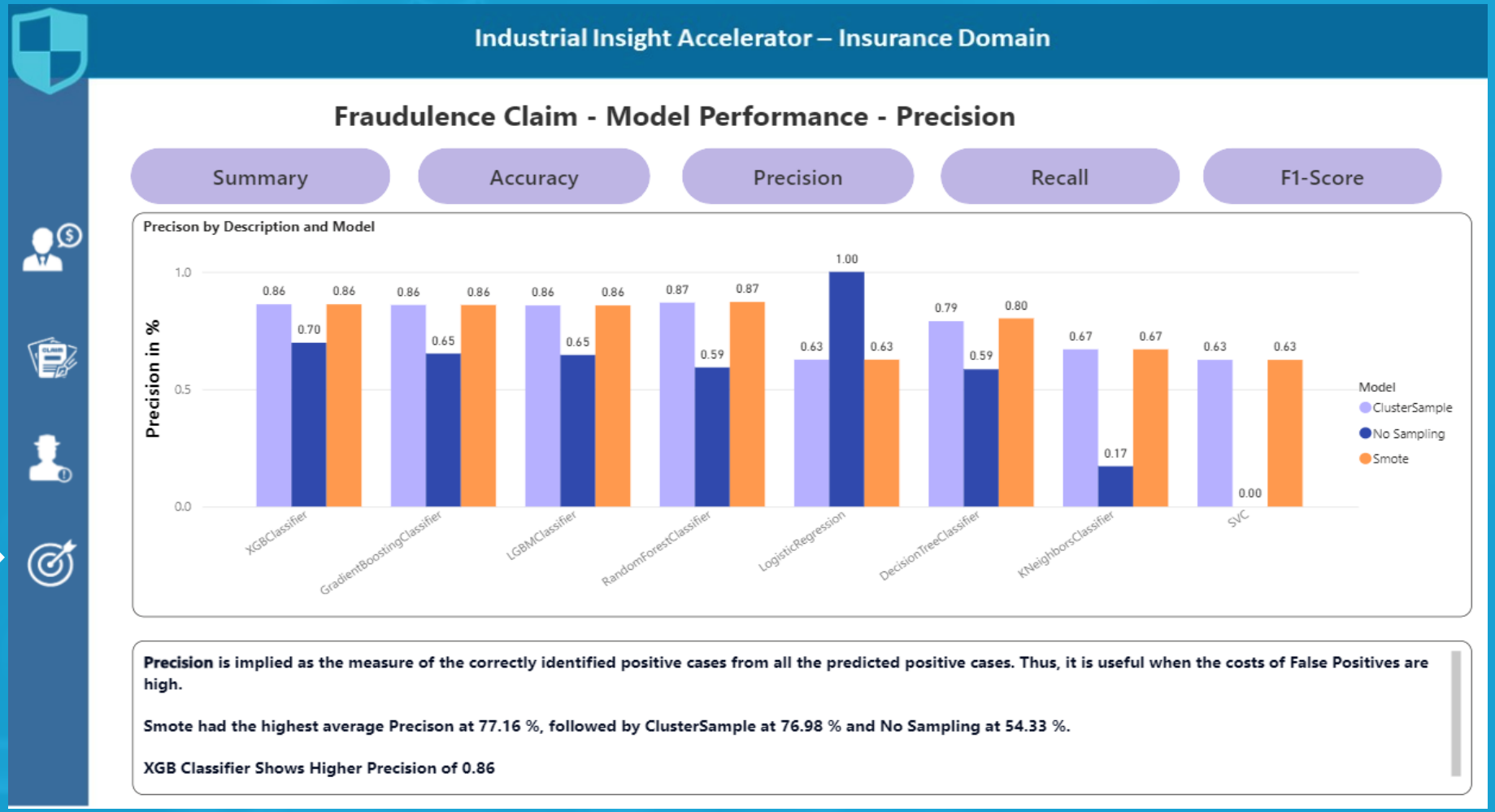
Key Insights:

- ✓ Performance of various Models' ability to detect Fraud accurately..
- ✓ The clustered column chart compares the ability of different Data science models to accurately detect fraud for different Sampling techniques like Clustered Sampling, Smote and Without Sampling.
- ✓ The narrative gives insights of the algorithm performance.

* Data in reports is only for illustration purposes.

preludesys

Insurance Fraudulence Claim - Precision



Key Insights:

- ✓ Performance of various Models' ability to detect fraudulent cases precisely.
- ✓ The clustered column chart compares the ability of different Data science models to precisely detect fraudulent cases for different Sampling techniques like Clustered Sampling, Smote and Without Sampling.
- ✓ The narrative gives insights of the algorithm performance.

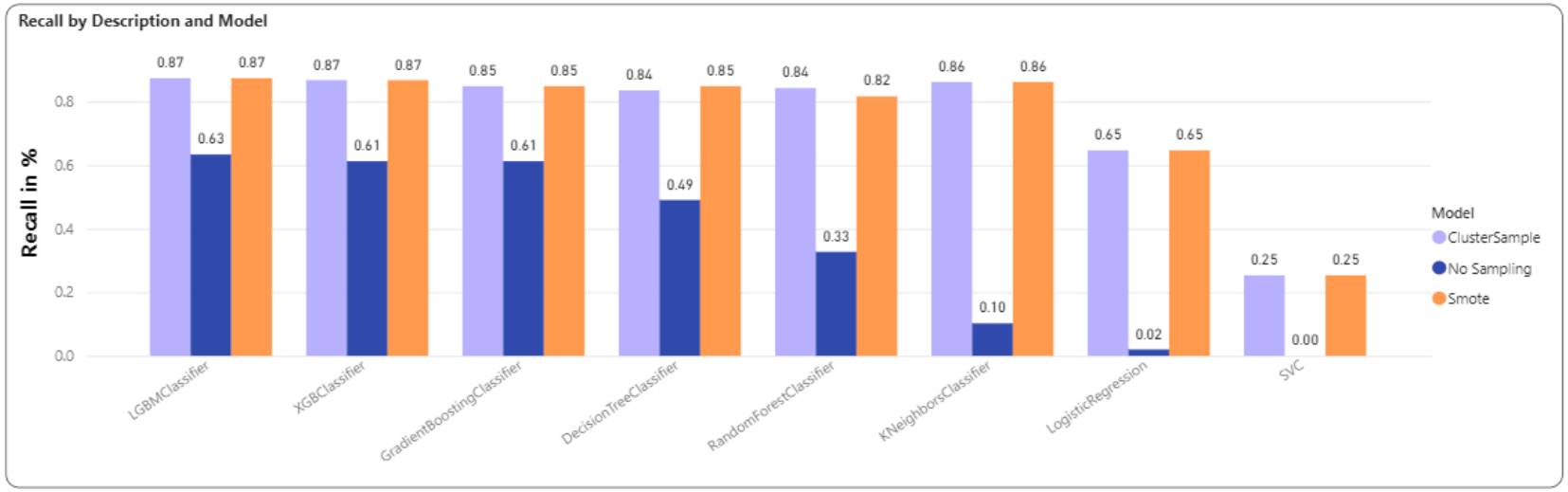
* Data in reports is only for illustration purposes.

preludesys

Insurance Fraudulence Claim – Recall

Fraudulence Claim - Model Performance - Recall

Summary | Accuracy | Precision | Recall | F1-Score



Recall is the measure of the correctly identified positive cases from all the actual positive cases. It is important when the cost of False Negatives is high.

ClusterSample had the highest average Recall at 75.31 %, followed by Smote at 75.15 % and No Sampling at 34.95 %.

LGBM Classifier has Highest Recall of 0.87%

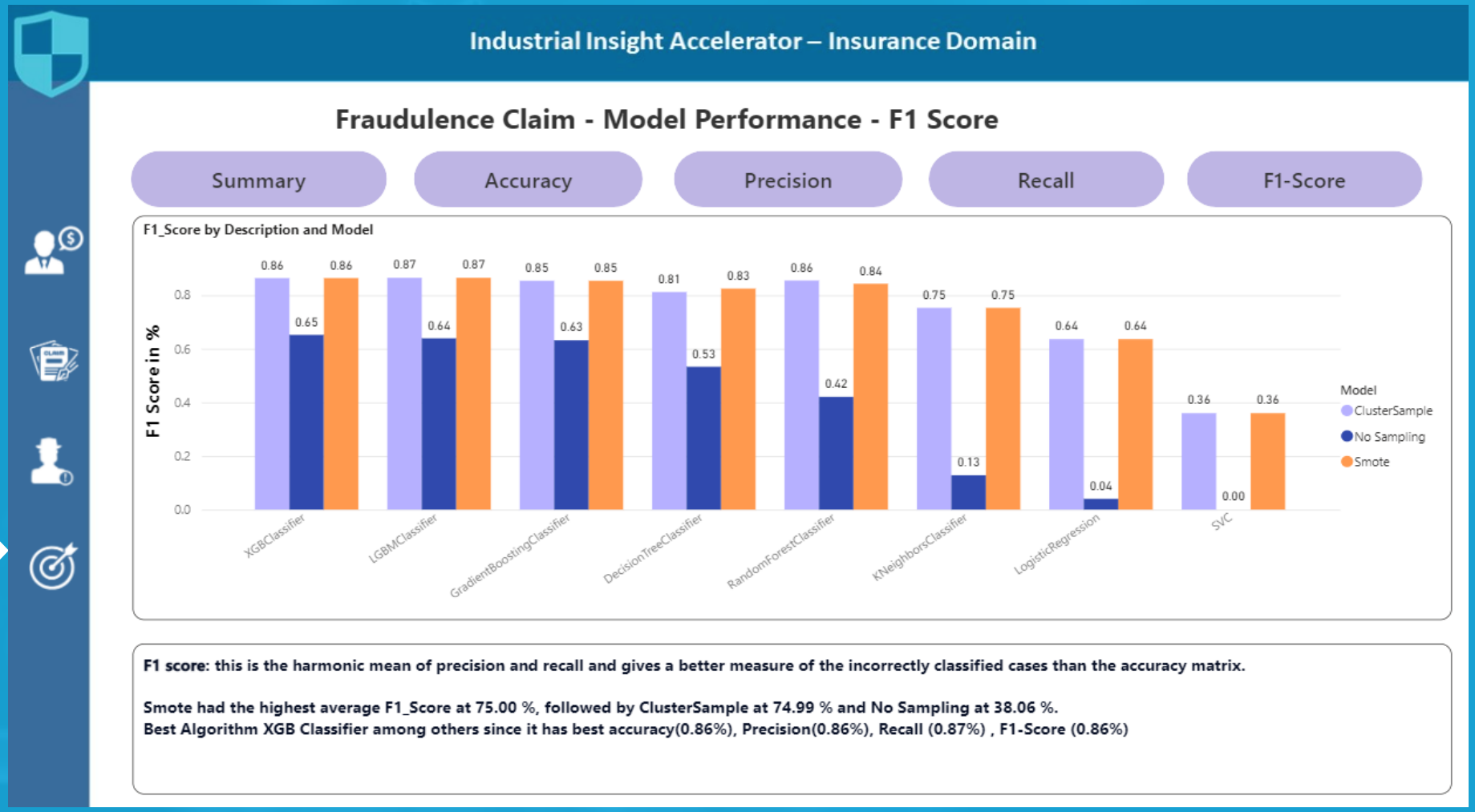
Key Insights:

- ✓ Performance of various Models' ability to detect Fraud cases sensibly.
- ✓ The clustered column chart compares the ability of different Data science models to detect fraud cases sensibly for different Sampling techniques like Clustered Sampling, Smote and Without Sampling.
- ✓ The narrative gives insights of the algorithm performance.

* Data in reports is only for illustration purposes.

preludesys

Insurance Fraudulence Claim – F1-Score



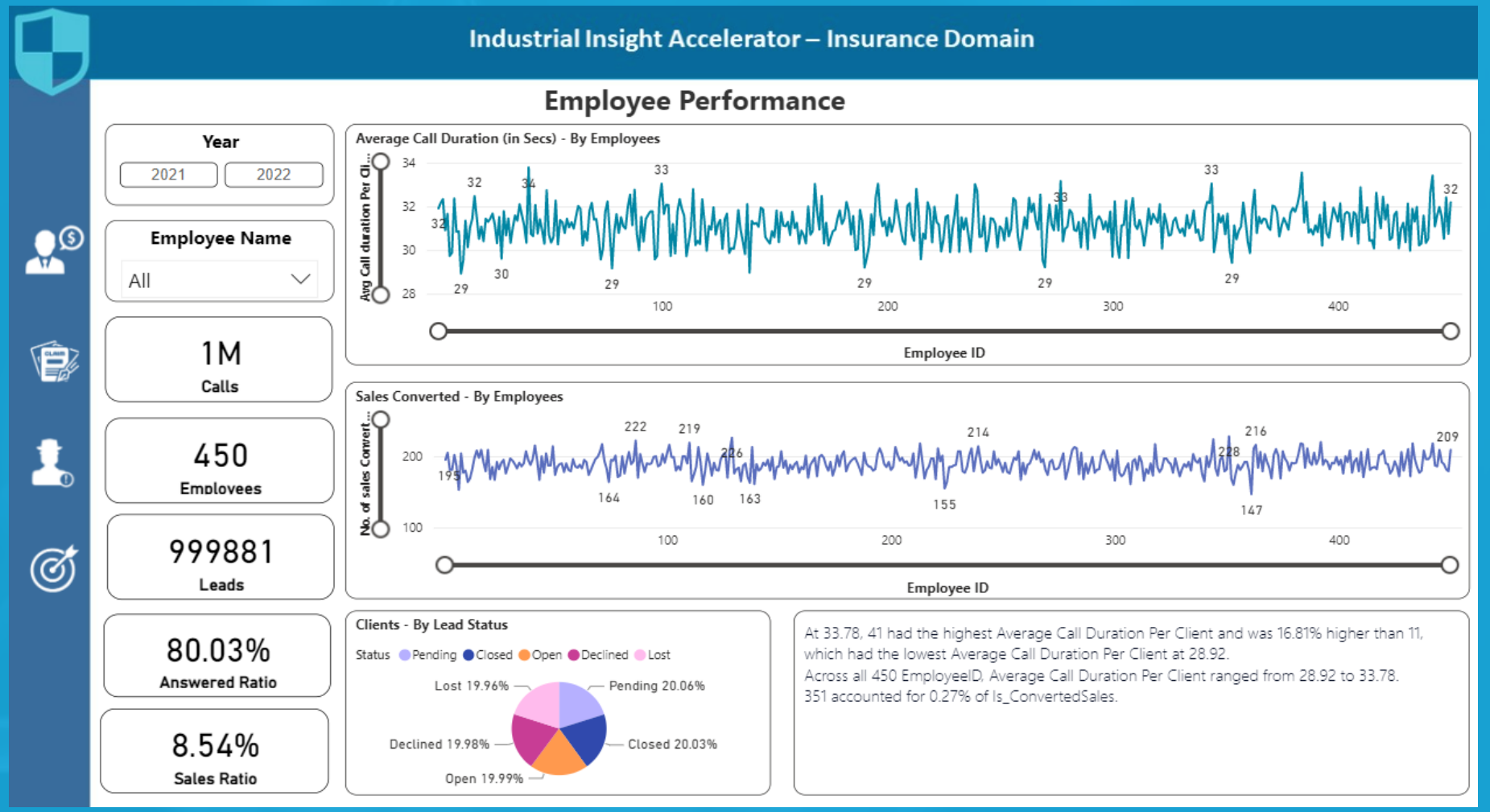
Key Insights:

- ✓ F1 Score give the Overall Model performance.
- ✓ In conclusion, the XGBClassifier model was able to accurately distinguish between fraudulent claims and legitimate claims.
- ✓ The narrative gives more insights.

* Data in reports is only for illustration purposes.

preludesys

Insurance Employee Performance



Key Insights:

- ✓ KPIs like Total Calls, Total employees and Leads. Insightful KPIs like Answered Ratio and Sales Ratio.
- ✓ Line charts showing Average Call duration in seconds, and Sales Converted by Employees
- ✓ #Clients by Lead Status in Pie chart.
- ✓ The Narration gives the summary of the employee performance.
- ✓ Interactive filter selection at period, employee level.

* Data in reports is only for illustration purposes.

preludesys


Thank You!
preludesys